

CLAIMS

Therefore, having thus described the disclosure, at least the following is claimed:

- 1 1. A method for managing memory, said method comprising the steps of:
2 receiving an indication of application state from a plurality of applications in
3 memory; and
4 determining which of the plurality of applications to effect removal from the
5 memory based on the received indication.
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- 1 2. The method of claim 1, wherein the step of receiving an indication of application
2 state includes receiving at least one of an indication of a stateless state, an indication of a
3 stateful state with a state record, and an indication of a stateful state with no state record.
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- 1 3. The method of claim 2, wherein the step of receiving an indication of a stateless
2 state includes receiving an indication of a state that indicates a user would perceive no
3 significant difference between a presentation associated with one of the plurality of
4 applications before and after removal from the memory and reloading to the memory.
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- 1 4. The method of claim 2, wherein the step of receiving an indication of a stateful state
2 with a state record includes receiving an indication of a state that indicates a user would
3 perceive no significant difference between a presentation associated with one of the plurality
4 of applications before and after removal from the memory and reloading to the memory
5 because the state is saved in the state record.
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- 1 5. The method of claim 4, further including the steps of effecting the removal of the
2 application with a stateful state with a state record and saving the state record.
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- 1 6. The method of claim 5, further including, responsive to a user activating the
2 removed application, restoring the removed application with the saved state record.
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1 7. The method of claim 2, wherein the step of receiving an indication of a stateful state
2 with no state record includes receiving an indication of a state that indicates a user would
3 perceive a difference between a presentation associated with one of the plurality of
4 applications before and after removal from the memory and reloading to the memory.

1 8. The method of claim 7, wherein the step of receiving an indication of a stateful state
2 with no state record includes receiving unload information, wherein the unload information
3 includes at least one of an unload information explanation and unload information choices.

1 9. The method of claim 1, wherein the step of determining includes the steps of
2 determining that an application with a stateless state is removed before an application with a
3 stateful state with a state record, and that a stateful state with a state record is removed
4 before a stateful state with no state record.

1 10. The method of claim 1, further including the steps of effecting the removal of an
2 application with a stateless state before the removal of an application with a stateful state
3 with a state record, and effecting the removal of an application with a stateful state with a
4 state record before the removal of an application with a stateful state with no state record.

1 11. The method of claim 1, further including the step of providing an explanation to a
2 user when an application to be removed from the memory includes a stateful state with no
3 state record, wherein the explanation informs the user the result of removing the application.

1 12. A method for managing memory, said method comprising the steps of:
2 receiving an indication that memory space is needed in memory;
3 receiving an indication of application state from a plurality of applications in the
4 memory, wherein the step of receiving an indication of application state includes receiving
5 at least one of an indication of a stateless state, an indication of a stateful state with a state
6 record, and an indication of a stateful state with no state record;
7 determining which of the plurality of applications to effect removal from the
8 memory based on the received indication, wherein the step of determining includes the steps
9 of determining that an application with a stateless state is removed before an application

with a stateful state with a state record, and that a stateful state with a state record is removed before a stateful state with no state record; and

effecting the removal of an application with a stateless state before the removal of an application with a stateful state with a state record, and effecting the removal of an application with a stateful state with a state record before the removal of an application with a stateful state with no state record.

13. A method for supporting the management of memory, said method comprising the steps of:

receiving an indication of a user request for a service;
responsive to receiving the indication, receiving an indication that memory space beyond that which is available is needed; and
providing an explanation that informs a user of the effect of removing an application from memory to provide the requested service.

14. The method of claim 13, further including the step of providing the user with choices that enable the user to determine whether to allow the provision of the requested service.

15. The method of claim 13, further including the step of retaining the application in the memory in response to the user selecting a choice associated with terminating the request for the service.

16. The method of claim 13, further including the step of effecting the removal of the application from the memory in response to the user selecting a choice associated with proceeding with the request for the service.

17. The method of claim 13, wherein the effect of removing the application includes losing the application state.

1 18. A system for managing memory, said system comprising:
2 a memory with logic; and
3 a processor configured with the logic to receive an indication of application state
4 from a plurality of applications in memory, wherein the processor is further configured with
5 the logic to determine which of the plurality of applications to effect removal from the
6 memory based on the received indication.

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1 19. The system of claim 18, wherein an indication of application state includes an
2 indication of at least one of a stateless state, a stateful state with a state record, and a stateful
3 state with no state record.

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1 20. The system of claim 19, wherein the stateless state includes a state where a user
2 would perceive no significant difference between a presentation associated with one of the
3 plurality of applications before removal from the memory and after reloading to the
4 memory.

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1 21. The system of claim 19, wherein the stateful state with a state record includes a state
2 where a user would perceive no significant difference between a presentation associated
3 with one of the plurality of applications before removal from the memory and after
4 reloading to the memory because the state is saved in the state record.

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1 22. The system of claim 21, wherein the processor is further configured with the logic to
2 effect the removal of the application with a stateful state with a state record and save the
3 state record.

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1 23. The system of claim 22, wherein the processor is further configured with the logic
2 to, responsive to a user activating the removed application, restore the removed application
3 with the saved state record.

1 24. The system of claim 19, wherein the stateful state with no state record includes a
2 state where a user would perceive a difference between a presentation associated with one of
3 the plurality of applications before removal from the memory and after reloading to the
4 memory.

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1 25. The system of claim 24, wherein the processor is further configured with the logic to
2 provide unload information, wherein the unload information includes at least one of an
3 unload information explanation and unload information choices.

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1 26. The system of claim 18, wherein the processor is further configured with the logic to
2 determine that an application with a stateless state is removed before an application with a
3 stateful state with a state record, and that a stateful state with a state record is removed
4 before a stateful state with no state record.

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1 27. The system of claim 18, wherein the processor is further configured with the logic to
2 effect the removal of an application with a stateless state before the removal of an
3 application with a stateful state with a state record, wherein the processor is further
4 configured with the logic to effect the removal of an application with a stateful state with a
5 state record before the removal of an application with a stateful state with no state record.

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1 28. The system of claim 18, wherein the processor is further configured with the logic to
2 provide an explanation to a user when an application to be removed from the memory
3 includes a stateful state with no state record, wherein the explanation informs the user the
4 result of removing the application.